

80 Series

REINFORCED NYLON CONTROL VALVES

Globe and angle plastic valves of the 80 series, equipped with a fully supported diaphragm, guarantee rapid and precise control of irrigation systems.



Optimal protection



Efficient installation



Extensive flexibility

/ Benefits & Features

- **Optimal protection** Tight closing & quick opening is achieved by a rigid plug mechanism that is suitable for high pressure applications and responds rapidly to water pressure fluctuations
- **Efficient installation** The valves are available in both globe and angle shapes and therefore eliminate the use of elbow joints and extending pipelines
- **Extensive flexibility** Available with full range of control functions, various end connections and a selection of 2 way and 3 way bonnets with integral accessories

/ Specifications & Recommendations

- **Maximum Pressure** – 12bar (175psi)
- **Minimum Recommended Flow** – 1m³/h (5gpm)
- **Minimum Operating Pressure** – 0.7bar (10psi)
- **Maximum Operating Temperature** – 70°C (160°F)

→ Hydraulic Performance

Shape	Straight			Angle			
	inch	1½	2	1½	2	3	4R*
Diameter	inch	1½	2	1½	2	3	4R*
	mm	40	50	40	50	80	100
Flow Rate Factor**	Kv	45	55	45	60	145	
	Cv	55	65	55	70	170	

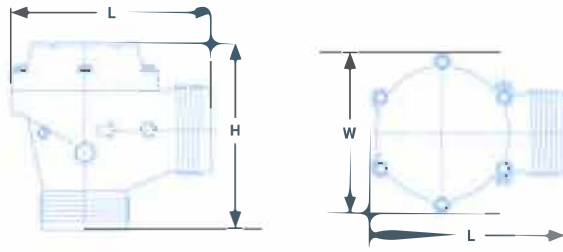
* R: Reduced, 4R: 434°

** In order to calculate the head loss at any desired flow rate, use the following equation: Head loss = (Flow rate/Flow rate factor)²

→ Technical Dimensions

Shape		Straight			Angle			
Diameter	inch	1½	2	1½	2	3	4R*	
	mm	40	50	40	50	80	100	
Height	H	mm / inch	145 / 5.70	145 / 5.70	66 / 2.59	66 / 2.59	130 / 5.11	130 / 5.11
Width	W	mm / inch	127 / 5.00	127 / 5.00	127 / 5.00	127 / 5.00	195 / 7.67	195 / 7.67
Length	L	mm / inch	165 / 6.49	165 / 6.49	88 / 3.46	88 / 3.46	160 / 6.29	160 / 6.29
Volume control chamber	cc / gal		100 / 0.02	100 / 0.02	100 / 0.02	100 / 0.02	400 / 0.10	400 / 0.10
Weight	kg / lbs		0.9 / 2	0.9 / 2	0.8 / 1.8	0.8 / 1.8	3.8 / 8.3	4.2 / 9.2

* Dimensions for those diameters include flanges

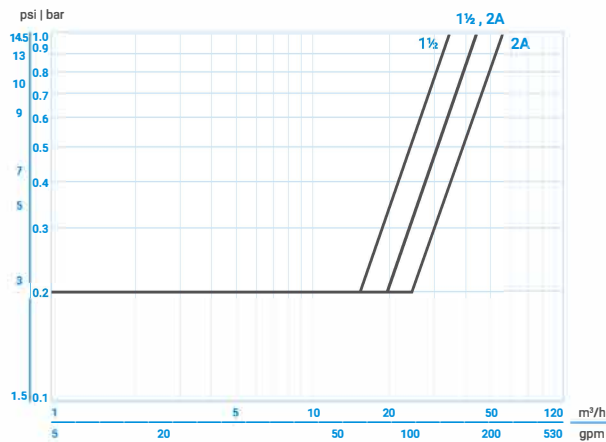


→ Material Specifications

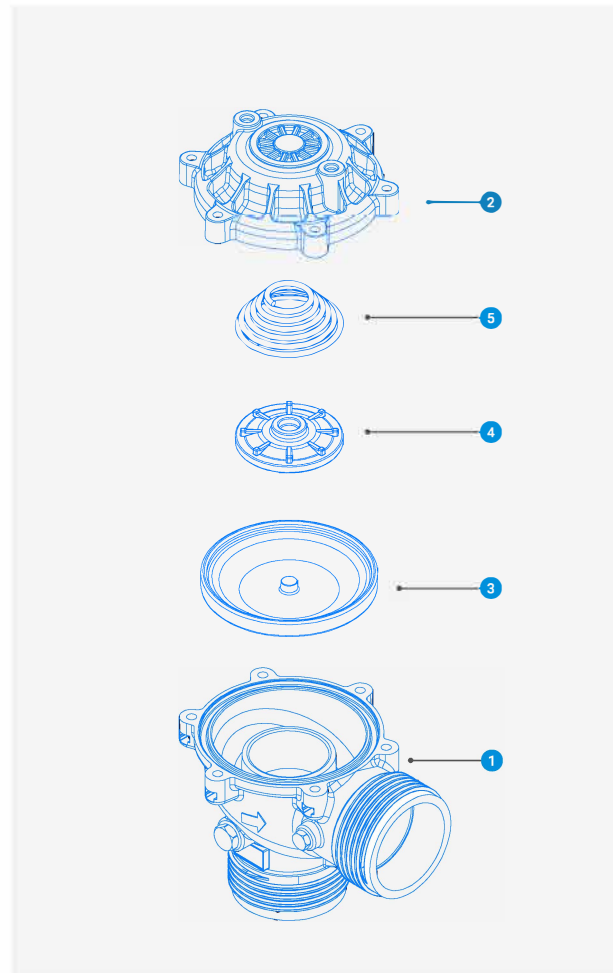
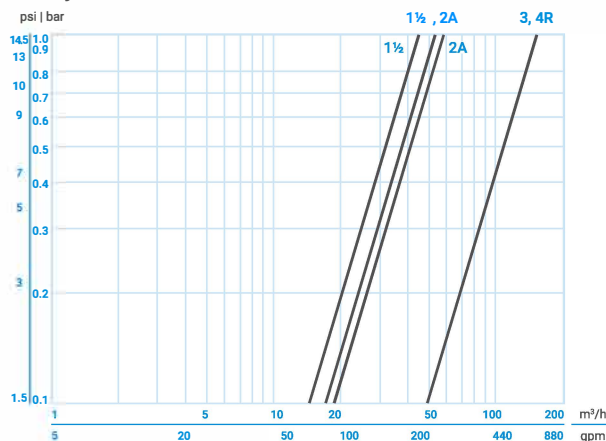
#	Part	Material
1	Body	Reinforced nylon
2	Bonnet	Reinforced nylon
3	Diaphragm*	Natural rubber
4	Spring seat	Nitrile rubber
5	Spring	SST 302

→ Head Loss

2 Way Valves



3 Way Valves



80 QR Series

REINFORCED NYLON CONTROL VALVES

The 80QR is a pilot-operated, universal surge-relief valve, that is designed for the pressure-surge protection of pumps, filtration systems and pipelines.



Outstanding performance



Ultimate durability



Extremely versatile

/ Benefits & Features

- **Specially designed** for irrigation when one in independent outlets are required
- **up to 10 bar** Wide operation pressure range, from as low as 0.5 bar and up to 10 bar
- **High Flow/ Low Pressure** Designed for high flow rates while maintaining extremely low-pressure losses
- **High Flow/ Low Pressure** Allows for a wide range of control applications

/ Specifications & Recommendations

- **Maximum Pressure** – 10bar (145psi)
- **Maximum Operating Temperature** – 60°C (140°F)

→ Hydraulic Performance

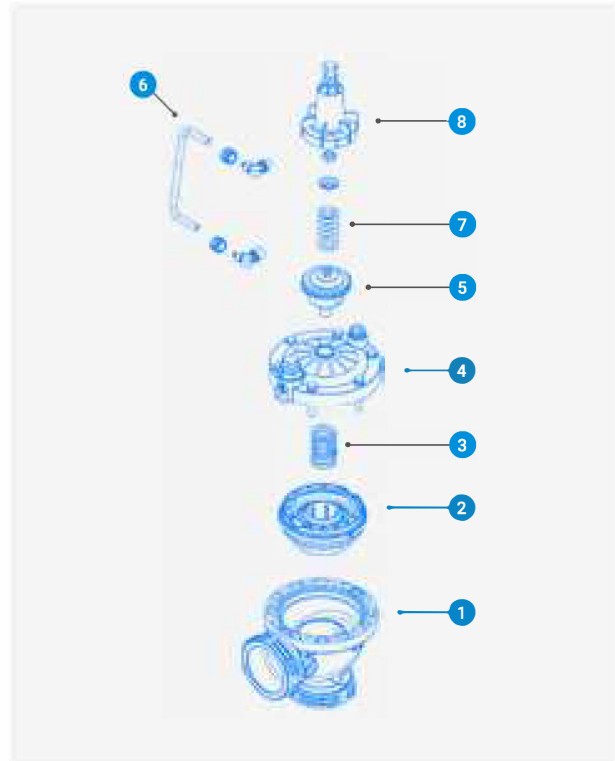
Based on Flow Rate (m³/h)

Diameter / bar	Set Point (bar)									
	1	2	3	4	5	6	7	8	9	10
1½"	37	52	64	74	82	90	97	104	110	130
2"	46	66	80	93	104	114	123	131	139	150
3"	120	170	208	240	268	294	317	339	360	385

→ Material Specifications

#	Part	Material*
1	Body	GRP
2	Diaphragm assembly	GRP, NR
3	Main spring	SST
4	Bonnet	GRP
5	Pilot-valve base	GRP, SST, NR
6	Control tube	PP
7	Adj. spring	SST
8	Pilot-valve bonnet	GRP

* Optional parts for special chemical resistance



80 W Series

DUAL OUTLET CONTROL VALVES

Netafim presents the 80W - High quality dual valve, designed for agriculture applications. for a better affordability, ease of use and a durable construction.



Outstanding
performance



Ultimate
durability



Extremely
versatile

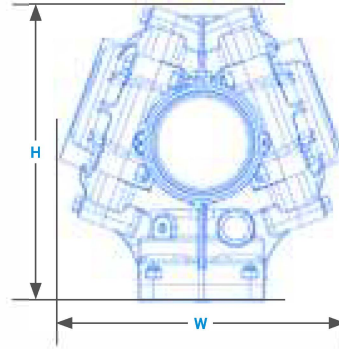
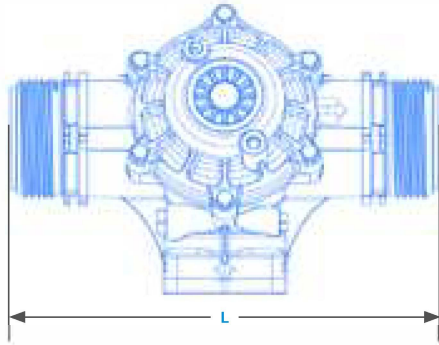
/ Benefits & Features

- ✔ Specially designed for irrigation when one in independent outlets are required
- ✔ Wide operation pressure range, from as low as 0.5 bar and up to 10 bar
- ✔ Designed for high flow rates while maintaining extremely low pressure losses
- ✔ Allows for a wide range of control applications

/ Specifications & Recommendations

- **Maximum Pressure** – 10bar (145psi)
- **Minimum Recommended Flow** – 1m³/h (5gpm)
- **Minimum Operating Pressure** – 0.4bar (6psi)
- **Maximum Operating Temperature** – 60°C (140°F)

→ Technical Dimensions



→ Hydraulic Performance

KV / CV 2 open outlets	m ³ /h@ 1bar	210
	gpm @ 1psi	242
KV / CV 1 open outlet	m ³ /h@ 1bar	105
	gpm @ 1psi	121

→ Head Loss

